

DECON IN OPERATIONS

DECONTA GROUP – YOUR PARTNER FOR
INNOVATIVE TECHNOLOGY FOR THE
PROTECTION OF PEOPLE AND THE ENVIRONMENT



deconta
rescue

TABLE OF CONTENTS

04

CONTAMINATION DURING OPERATIONS

Invisible risks, exposure pathways and contamination spread

06

DECONTAMINATION AS A SHARED CHALLENGE

Operational environments, responsibilities and process understanding

08

DECONTAMINATION ONLY WORKS AS A SYSTEM

System logic, technical principles and core elements

10

DECONTAMINATION IS A PROCESS

Pre-cleaning, undressing, packaging, decontamination, dressing and reintegration

12

DECONTA RESCUE SYSTEM SOLUTIONS

Mobile and stationary platforms for controlled decontamination

14

TRAILER SOLUTIONS

Mobile decontamination directly at the incident scene

16

TRAILER SYSTEMS IN DETAIL

Functional areas, equipment and mobile supply systems

18

EQUIPMENT VEHICLE SOLUTIONS

Ready for immediate deployment — more than decontamination

20

EQUIPMENT VEHICLES IN DETAIL

Functional areas, equipment and mobile supply systems



22

ROLL-OFF CONTAINER SOLUTIONS

Scalable for major incidents and complex operational scenarios

24

ROLL-OFF CONTAINERS IN DETAIL

Functional areas, equipment and mobile supply systems

26

DECONTAMINATION OF PERSONNEL AND CASUALTIES

Stationary and mobile systems for hospitals and critical infrastructure

28

STATIONARY SYSTEMS IN DETAIL

Functional areas, equipment and stationary supply systems

30

SOLUTIONS THAT PROTECT

Proven systems, international presence and deconta quality

CONTAMINATION OCCURS DURING OPERATIONS. THE RISK AFTERWARDS IS OFTEN UNDERESTIMATED.

Hazardous substances and biological contamination arise in many operational environments — often without being immediately visible. These include:

- PAHs (polycyclic aromatic hydrocarbons) during firefighting operations
- Asbestos fibers released from damaged building materials
- Biological contamination during flooding and in veterinary and healthcare sectors
- Chemical residues in industrial and hazardous materials incidents

These substances adhere to clothing, skin, and equipment — and are often unintentionally carried further.

- | Soot & pollutants
- | Bacteria & viruses
- | Biological hazards
- | Chemical contamination

EXPOSURE OCCURS UNNOTICED — BUT WITH CONSEQUENCES

Hazardous substances and biological contamination enter the body through various pathways or are spread uncontrollably.



PATHWAYS

- | Skin contact
- | Respiratory exposure
- | Contaminated protective clothing and equipment



CONTAMINATION SPREAD

- | Into vehicles
- | Into accommodations
- | Into workspaces
- | Into private environments

The real challenge is not merely contact, but the uncontrolled spread of contamination.

What these operational scenarios have in common: contamination is invisible — but effective.

INVISIBLE. PERSISTENT. CUMULATIVE.

Hazardous substances and biological contamination rarely affect people only during the operation itself.

They remain on the skin, in materials, or enter the body — often unnoticed and with delayed effects.

Repeated exposure in particular makes these hazards highly relevant. Even a single exposure can present health risks.



LONG-TERM EFFECTS

Many substances — such as PAHs from firefighting operations or asbestos fibers — can accumulate in the body and cause long-term health damage.

The effects often do not occur immediately, but only after prolonged and repeated exposure.



INVISIBLE TRANSMISSION

Contamination is frequently not recognized and unintentionally spread:

- via protective clothing
- via equipment and tools
- via surfaces and vehicles

Without clear procedures, contamination spreads uncontrollably.



CUMULATIVE EXPOSURE

It is not only individual incidents that matter — but the accumulation of many small, unnoticed exposures.

These affect not only emergency personnel, but also downstream areas and contact persons.

DECONTAMINATION IS NOT AN ISOLATED ISSUE. IT IS A SHARED CHALLENGE.

Incident hygiene and decontamination must now be considered in many sectors.

Guidelines, regulations and internal concepts already exist.

However, practical implementation varies significantly.

Decontamination is a process chain in which every link is critical.

- | **Pre-cleaning contaminated protective equipment**
- | **Safe doffing/undressing and packaging**
- | **Full-body decontamination (showering)**
- | **Clean replacement clothing**



CONTAMINATION OCCURS IN MANY OPERATIONS.

Contamination occurs wherever people work with hazardous substances, biological risks, or unknown contaminants.



Fire departments



Civil protection



Disaster response



Fire investigation



Veterinary services



Laboratories



Hospitals



Military

Different tasks — different operational conditions —
but comparable decontamination requirements.

DECONTAMINATION ONLY WORKS AS A SYSTEM.

PRACTICAL ANALYSIS SHOWS:

Individual measures exist — but the connection between them is missing.

Effective decontamination is not achieved through isolated steps, but through the interaction of all relevant factors.

SYSTEM LOGIC



Pre-cleaning



Undressing



Packaging



Decontamination



Dressing



Reintegration

Each step fulfills a clear function. The transitions between the individual areas are decisive.



Structured decontamination is based on technical principles that have been established in regulated work environments for many years.

One example is TRGS 519 for asbestos handling.

It defines clear requirements for protection against invisible contamination:

- Enclosed work areas
- Defined personnel and material airlocks
- Negative pressure with air filtration
- Controlled airflow and wastewater filtration

These principles ensure that hazardous substances are not released or spread uncontrollably.

The challenge lies in implementing these technical requirements under real operational conditions:

- Mobile
- Rapidly deployable
- Independent of infrastructure
- Under changing conditions

deconta develops systems that transfer these principles into mobile and stationary applications.

Not as isolated components — but as an integrated, reproducible and safe workflow.

CORE SYSTEM ELEMENTS



CONTAINMENT-CLEAN-AREA

Prevents mixing of contaminated and clean areas.



NEGATIVE PRESSURE & HEPA AIR FILTRATION

Controlled airflow and filtration ensure clean air.



GUIDED WORKFLOWS

Defined routes for personnel and materials.



COLLECTION AND FILTRATION OF WASTEWATER

Prevents uncontrolled spread of contamination into the environment.



CONFIGURABLE POWER SUPPLY

Autonomous system configurations depending on operational requirements.

DECONTAMINATION IS A PROCESS.

Decontamination is not a single step, but a structured process consisting of coordinated phases.

Each phase fulfills a clear function:
It reduces contamination and prevents contamination spread.



PRE-CLEANING

Boot and equipment cleaning



UNDRESSING

Controlled undressing



PACKAGING EQUIPMENT

Packaging contaminated PPE under negative pressure and air filtration



DECONTAMINATION

Thorough cleaning of body and hair



DRESSING

Putting on clean clothing



SAFE REINTEGRATION

Safe return through the white zone without contamination

CLEAR WORKFLOW. MAXIMUM PROTECTION.

The structured decontamination process reduces contamination, prevents contamination spread, and creates safety — regardless of operation type, location, or deployed personnel.



PROTECTION OF EMERGENCY PERSONNEL

Reduces health risks caused by hazardous substances and biological contamination.



PREVENTION OF CONTAMINATION SPREAD

Contamination remains where it originated.



LEGAL COMPLIANCE & RESPONSIBILITY

Meets occupational safety, hygiene and documentation requirements.



EFFICIENCY UNDER PRESSURE

Clear procedures conserve resources and reduce operational strain.

A structured workflow protects people and the environment, reduces risks, and prevents contamination spread.

DECONTA DEVELOPS SYSTEMS FOR CONTROLLED DECONTAMINATION.

Decontamination is not an isolated step, but a structured process consisting of coordinated phases. Each phase fulfills a clear function: It reduces contamination and prevents contamination spread.



DECONTAMINATION ONLY WORKS AS A SYSTEM

Practical analysis shows: isolated measures exist — but the connection between them is missing. Effective decontamination results not from individual steps, but from the interaction of all relevant factors.

SYSTEM LOGIC

Pre-cleaning → Undressing → Packaging → Decontamination → Dressing → Reintegration



Made in Germany

Development, production and service from a single location in Isselburg, Germany.



Over 25 Years of Experience

Long-standing specialization in decontamination solutions for professional applications.



International Presence

deconta operates internationally, including France, Italy, Switzerland and Spain.



Quality Commitment

ISO 9001-certified processes with a strong focus on reliability and practical usability.

SYSTEM FOR A CONTROLLED WORKFLOW.

deconta systems are designed to implement decontamination as a structured workflow for the protection of people and the environment.

The focus is not on a single product, but on the interaction of all process steps in an application-oriented system solution.



Trailers

Complete decontamination systems, flexible and rapidly deployable by passenger car or truck directly at the incident scene.



Equipment vehicles

Vehicle-based solutions with integrated decontamination areas, technology and storage compartments for immediate deployment.



Roll-off containers

Für bestehende Wechselladersysteme, skalierbar auch für große Lagen mit hoher Einsatzflexibilität



Stationary and mobile systems

Solutions for hospitals, shelters and temporary deployment scenarios — including systems for decontaminating large numbers of people.



One systems concept – different platforms for different operational scenarios

MOBILE DECONTAMINATION DIRECTLY AT THE INCIDENT SCENE.



deconta trailer systems provide a practical solution for incident scenes where rapid availability and easy integration are essential.

The trailer solutions enable a structured decontamination workflow in any operational scenario with minimal personnel and logistical effort.

They are particularly suitable for situations where a complete infrastructure is not required, yet safe and clearly defined decontamination must still be ensured.

Especially suitable for emergency organizations requiring a rapidly deployable and independently operable decontamination solution.

Vehicle-independent deployment

The height-adjustable draw-bar enables use with different towing vehicles (e.g. logistics vehicles or personnel transport vehicles).

Low entry barrier

Gross vehicle weight under 3.5 t — usable with standard driver's license classes.

Compact and maneuverable

Suitable for narrow roads, confined incident scenes and hard-to-access areas.

Cost-efficient solution

Lower investment and operating costs compared to larger systems.

DIFFERENT VARIANTS. ONE WORKFLOW – DIFFERENT CAPACITIES.

The different trailer variants differ not in the structure of the decontamination process, but in room layout, capacity and throughput.

This ensures the right system is available for different operational requirements — from small to large incidents.

C5000

Compact and mobile for every operational scenario.



C6000

More space for materials and equipment.



C6000MAX

Parallel decontamination for high throughput in larger incidents.



Mobile decontamination for different operational scenarios — consistently well-designed and safely implemented.

TRAILERS. READY FOR IMMEDIATE DEPLOYMENT.



The trailer systems combine structured decontamination workflows with integrated technology and clearly defined functional areas.

The detailed views shown illustrate the practical system design and selected components for material logistics, hygiene and supply in mobile operations.



UNDRESSING AREA
Safe undressing and packaging



HEPA AIRFILTRATION
Controlled airflow and filtration



SHOWER
Controlled decontamination.



BOOT WASHING MACHINE
Cleaning boots and equipment



CONTACTLESS PPE DISPOSAL
Safe disposal of contaminated PPE



INTEGRATED CLOTHING DISPENSER
Provision of clean replacement clothing



CLEAN AREA
Clean area with storage capability



SEPARAT TOILET



EQUIPMENT ROOM
Protected storage for materials



STORAGE COMPARTMENT
Potable water supply kit



MOBILE SUPPLY SYSTEM
Autonomous or electric operation



EXTERIOR LIGHTING
Independent of towing vehicle.



HEIGHT-ADJUSTABLE DRAWBAR
Tool-free and vehicle-independent



MOVER SYSTEM
Precise maneuvering of the trailer



AWNING
With entrance canopy

EQUIPMENT VEHICLES. READY FOR IMMEDIATE DEPLOYMENT.

The equipment vehicle combines decontamination, technology and logistics in one vehicle. It is immediately operational — without additional towing vehicles and without setup time.

All functions are integrated and instantly available. This enables structured workflows with minimal personnel, even under time pressure and dynamic operational conditions.



MORE THAN DECONTAMINATION. SUPPLY INTEGRATED DIRECTLY INTO THE SYSTEM..

The equipment vehicle expands decontamination capabilities with logistical and organizational functions.

In addition to cleaning, it enables structured support for emergency personnel — directly on site and without additional infrastructure.



TAIL LIFT & LOGISTICS

Easy loading and unloading of materials and equipment — even under operational conditions.



STORAGE & EQUIPMENT INTEGRATION

Large storage and equipment compartments allow additional equipment and consumables to be carried.



POST-OPERATION SUPPLY

Replacement clothing and materials are directly available — enabling rapid changeover and restoration of operational readiness.



LARGER INTERIOR STRUCTURE

More space enables more stable workflows and better organization — even with multiple personnel.



ALL-IN-ONE VEHICLE

No additional components or vehicles required — technology, hygiene and logistics are fully integrated.



EQUIPMENT VEHICLES. READY FOR IMMEDIATE DEPLOYMENT.



The equipment vehicle combines decontamination, material logistics and technical support in one fully integrated operational system.

All functional areas are integrated directly into the vehicle and available without additional infrastructure. This enables structured decontamination workflows to be established quickly and operated immediately.

In addition to hygiene and decontamination functions, the system provides extra capacities for materials, consumables and logistical support during operations.

The integrated vehicle structure enables short distances, clear workflows and a high level of operational autonomy — even during dynamic or prolonged incidents.



UNDRESSING AREA
Safe undressing and packaging.



HEPA AIR FILTRATION
Controlled airflow and filtration.



SHOWER
Controlled decontamination.



BOOT WASHING MACHINE
Cleaning boots and equipment



EXTENDABLE HYGIENE BOARD



INTEGRATED CLOTHING DISPENSE
Provision of clean replacement clothing



CLEAN AREA
With integrated storage compartments and operational clothing



SEPARATE TOILET



PPE RECEIVING AREA
Safe packaging of contaminated PPE



REAR TAIL LIFT
Loading platform for roll containers



EXTENDABLE STEPS



UNDERFLOOR EQUIPMENT COMPARTMENT



REMOVABLE COOLING OPTION



WASTEWATER FILTRATION
Integrated two-stage wastewater filtration system



TOUCH CONTROL PANEL
System control and monitoring

ROLL-OFF CONTAINERS. SCALABLE FOR LARGE INCIDENTS..

The roll-off container uses the hook-lift system as a transport solution.
What matters, however, is the operational functionality of the system.

deconta roll-off containers are designed to implement decontamination safely, structurally
and reproducibly under real operational conditions.



Type 868 | Empty weight: 3,800 kg | Payload: 9,200 kg | Gross weight: 13,000 kg
Length: 6,60 m | Width: 2,55 m | Height: 2,50 m | DIN 14505

DEVELOPED FOR OPERATIONS. NOT JUST FOR TRANSPORT.

Roll-off containers separate transport and functionality.

This allows different operational requirements to be covered using fewer vehicles.

Structured room separation

Clear separation of functional areas enables stable workflows — even under heavy utilization

Reduced vehicle fleet

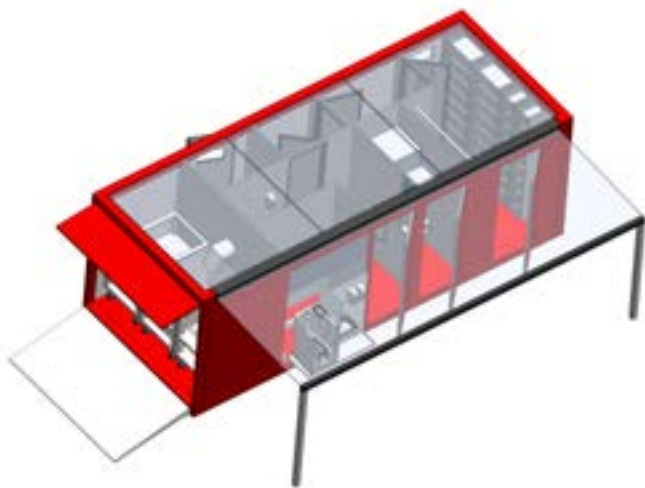
Fewer specialized vehicles required while maintaining the same operational capability

Designed for continuous operation

Systems are designed for prolonged autonomous deployment and continuous use

Clear separation of logistics and function

Transport vehicles and system units can be used independently



High-performance decontamination — even for complex operational scenarios.

ROLL-OFF CONTAINERS. SCALABLE FOR LARGE INCIDENTS.



The mobile decontamination container enables structured incident hygiene directly at the incident scene.

Thanks to the clear black-and-white separation, contaminated operational clothing, equipment and personnel can be safely decontaminated. At the same time, the integrated storage and logistics system ensures efficient material supply, even during major incidents.

The modular concept includes decontamination areas, equipment rooms, roll-container systems and solutions for low-contamination storage and disposal of personal protective equipment.

The unit is scalable, quickly deployable and specifically designed for fire departments, disaster response organizations and technical emergency services.



UNDRESSING AREA
Safe undressing and packaging



HEPA AIR FILTRATION
Controlled airflow and filtration



SHOWER
Controlled decontamination



BOOT WASHING MACHINE
Cleaning of boots and equipment



EXTENDABLE HYGIENE BOARD



STORAGE FOR PERSONAL BELONGINGS



INTEGRATED CLOTHING DISPENSE
Provision of clean replacement clothing



CLEAN AREA
With integrated storage compartments and operational clothing



SEPARATE TOILET



PPE RECEIVING AREA
Safe packaging of contaminated PPE



EQUIPMENT COMPARTMENT



ROLL CONTAINER



AWNING



EXTERIOR VIEW & EQUIPMENT COMPARTMENTS



TOUCH CONTROL PANEL
System control and monitoring

DECONTAMINATION OF PERSONNEL AND CASUALTIES.

For hospitals and critical infrastructure facilities, deconta rescue offers solutions for the decontamination of ambulatory and non-ambulatory casualties — permanently integrated or deployable as mobile systems.



For hospitals, shelters and critical infrastructure, deconta rescue develops stationary decontamination solutions for the safe admission of contaminated personnel.

The modular systems enable controlled hygiene pathways, defined decontamination processes and clear separation between contaminated and clean areas — even for large numbers of personnel.

Designed for ambulatory and non-ambulatory persons, the systems create safe workflows for medical personnel, emergency responders and patients. Thanks to modular design, they can be adapted to different infrastructural requirements.

Mobile and stationary systems for controlled decontamination.

DESIGNED FOR STATIONARY USE. AVAILABLE FOR MOBILE USE.

For hospitals, shelters and critical infrastructure, deconta rescue provides decontamination systems that can either be permanently integrated or rapidly deployed on site when required.

The system is designed for the decontamination of large numbers of people — including ambulatory persons and stretcher patients.

Modular

Adaptable to different operational requirements

Structured

Clear workflows for safe processes

Flexible

Permanently integrated or mobile deployment

Controlled

Designed for medical and sensitive environments

PERMANENTLY INTEGRATED

For facilities with permanent protection requirements, the system can be integrated into existing or newly planned infrastructure

MOBILE DEPLOYMENT

In acute situations, the system can be temporarily installed on site — for example outside a hospital or critical facility.

CLEAR PROCESSES

Multiple airlocks, defined pathways and coordinated functional areas support a controlled decontamination workflow.

AIRLOCKS

Access control and personnel guidance



DECONTAMINATION

Safe cleaning and decontamination



REINTEGRATION

Controlled patient transfer and reintegration



Mobile and stationary systems for structured decontamination in medical and infrastructure environments.



STATIONARY SYSTEMS SCALABLE FOR LARGE INCIDENTS

The modular decontamination system enables highly flexible and rapidly deployable personnel decontamination directly before medical facilities.

The system is designed for ambulatory and non-ambulatory persons and combines intelligent controls, negative-pressure technology and autonomous water treatment into a high-performance overall solution for crisis and hazardous situations.



Designed for persons standing or lying down



Intelligent traffic light guidance system



Negative pressure unit (HEPA airfiltration)



Safe undressing



**Shower
Controlled decontamination**



Autonomous water treatment



Smart control system for multiple lines simultaneously



Automatic disinfectant dosing system



Tool-free setup

SOLUTIONS THAT PROTECT.

Our modular systems provide the right solution for every operational scenario — flexible, rapidly deployable and proven worldwide.

TRAILER SOLUTIONS



- Mobile and flexible deployment
- Different sizes and equipment variants
- Rapidly available

EQUIPMENT VEHICLE SOLUTIONS



- Directly integrated on truck chassis
- Ready for immediate deployment
- Optimized logistics solution

ROLL-OFF CONTAINER SOLUTIONS



- Mobile and flexible deployment
- Different sizes and equipment variants
- Rapidly available

STATIONARY SOLUTIONS



- Permanent infrastructure
- For facilities and institutions
- Sustainable and safe

Mobile and stationary systems for controlled decontamination.

PROVEN. DEPLOYED WORLDWIDE.

Whether in Germany or internationally — our solutions are deployed wherever safety, reliability and speed are critical.

Status:2025

- TRAILERS
- EQUIPMENT VEHICLES
- ROLL-OFF CONTAINERS



DECONTA QUALITY

Development and manufacturing according to the highest quality standards — Made in Germany.

RELIABLE PARTNER

Personal consultation, rapid response times and dependable service worldwide.

EXPERIENCE THAT MATTERS

More than 30 years dedicated to protecting the health and safety of people and the environment.

SUSTAINABILITY

Durable systems, efficient processes and responsibility for the future.

IMPRINT

deconta GmbH
Im Geer 20
46419 Isselburg
Germany

Phone: +49 (0) 2874 91 56 0

Fax: +49 (0) 2874 91 56 11

E-Mail: info@deconta.com

Web: www.deconta.com

Authorized Managing Director:
Volker Reidegeld

Legal form: Limited Liability Company (GmbH)
Commercial Register: District Court Coesfeld, HRB 9066
VAT ID according to § 27a UStG: DE 813 462 476

© 2026 deconta GmbH. All rights reserved.

Technical modifications and errors excepted.

- Responsible for content acc. to § 18 Abs. 2 MStV: Volker Reidegeld
- Note on Product Liability:

The information contained in this brochure reflects the status at the time of printing. Technical, equipment or design modifications reserved. No liability accepted for printing errors.

